Applicant: Wen-Fu T. Lai et al Attorney's Docket No.: 10627-004001

Serial No.: 10/073,521

Filed: February 11, 2002

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Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

<u>Listing of Claims</u>:

1-6. (Canceled)

7. (Currently amended) A method of fabricating a cartilage implant comprising: embedding chondrocytes or mesenchymal stem cells in a three-dimensional substrate, the substrate containing randomly rewound α-helical monomers from partially digested type I collagen; and

growing the chondrocytes or mesenchymal stem cells in the substrate, thereby producing a cartilage implant;

wherein the substrate further contains randomly rewound α -helical monomers from partially digested type II collage collagen, and during the growing step, the chrondrocytes or mesenchymal stem cells and the substrate are placed in a rotating and oscillating vessel.

8-9. (Canceled)

10. (Previously presented) A method of fabricating a cartilage impļant comprising: embedding chondrocytes or mesenchymal stem cells in a three-dimensional substrate, the substrate containing randomly rewound α -helical monomers from partially digested type I collagen; and

growing the chondrocytes or mesenchymal stem cells in the substrate, thereby producing a cartilage implant;

wherein, during the growing step, the chrondrocytes or mesenchymal stem cells and the substrate are placed in a rotating and oscillating vessel.

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11-24. (Canceled)